# Teledyne LeCroy PSG Products

# License Installation Manual

**Document Version 1.0**

**December 2013**

Teledyne LeCroy Protocol Solutions Group

Trademarks and Servicemarks:

Teledyne LeCroy, Protocol Solutions Group, CATC Trace, DDR Protocol Suite, FC Protocol Suite, IOTA Software Suite, Net Protocol Suite, PETracer, SAS/SATA Protocol Suite and USB Protocol Suite are trademarks of Teledyne LeCroy.

Microsoft and Windows are registered trademarks of Microsoft Corporation.

All other trademarks and registered trademarks are property of their respective owners.

THE SPECIFICATIONS AND INFORMATION REGARDING THE PRODUCTS IN THIS MANUAL ARE SUBJECT TO CHANGE WITHOUT NOTICE. ALL INFORMATION, EXAMPLES AND RECOMMENDATIONS IN THIS MANUAL ARE BELIEVED TO BE ACCURATE BUT ARE REPRESENTED WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED. USERS ARE FULLY RESPONSIBLE FOR THEIR APPLICATION OF ANY PRODUCTS.

THE SOFTWARE LICENSE AND LIMITED WARRANTY FOR THE ACCOMPANYING PRODUCT ARE SET FORTH IN INFORMATION THAT SHIPPED WITH THE PRODUCT AND ARE INCORPORATED HEREIN BY THIS REFERENCE. IF YOU ARE UNABLE TO LOCATE THE SOFTWARE LICENSE OR LIMITED WARRANTY, CONTACT TELEDYNE LECROY FOR A COPY.

---

© 2013 Teledyne LeCroy; All rights reserved.

This document may be printed and reproduced without additional permission, but all copies should contain this copyright notice.

---

Teledyne LeCroy
3385 Scott Blvd.
Santa Clara, CA 95054
TEL: 800-909-7112 (USA and Canada)
TEL: 408-653-1260 (worldwide)

# Contents


**Chapter 1: License Installation ..... 3**

**DDR Protocol Suite ..... 4**

**FC Protocol Suite ..... 6**

**Net Protocol Suite ..... 9**

**PETracer ..... 12**

**Analyzers ..... 12**

**Exerciser ..... 15**

**SAS/SATA Protocol Suite ..... 16**

**USB Protocol Suite ..... 19**

**Appendix A: How to Contact Teledyne LeCroy ..... 23**

# Chapter 1

# License Installation

Protocol Solutions Group systems provide an extensive and wide set of functionality as part of the basic configuration of our products. Certain capabilities and features, however, need to be enabled through license keys that are provided by Teledyne LeCroy.

PSG employs two types of licensing mechanisms: 1) hardware licensing, and 2) software licensing. Some products use only hardware licensing, some use only software licensing, and some may use both.

The hardware license key is an encrypted proprietary binary file bound to a specific PSG hardware unit serial number. When the hardware license key is loaded into the specified hardware unit, it unlocks and enables the appropriate functionality.

The software license key is an encrypted file bound to the Ethernet MAC address of the system where the PSG software application is running. The software license key may also be bound to a license server that would enable multiple clients on the network to access the license.

To enable one or more features that require a license, you need to obtain a new license key file from PSG sales: protocolsales@teledynelecroy.com.

Upon receipt of the license key, you must use the respective PSG product's software application to load the license key and enable the features.

The remainder of this document will describe the procedure for updating hardware licenses for the following products:

- DDR Protocol Suite (see “DDR Protocol Suite” on page 4).
- FC Protocol Suite (see “FC Protocol Suite” on page 6).
- Net Protocol Suite (see “Net Protocol Suite” on page 9).
- PETracer (see “PETracer” on page 12).
- SAS/SATA Protocol Suite (see “SAS/SATA Protocol Suite” on page 16).
- USB Protocol Suite (see “USB Protocol Suite” on page 19).

IOTA Software Suite uses software licensing. Please refer to the document *Teledyne LeCroy Software Licensing Guide* for full details on software licensing.

## DDR Protocol Suite

Perform the following steps to update the License:

1. Connect the Kibra system, for which you have purchased the feature upgrade license, to the host machine.

a. Connect the provided power adapter to the rear of the Analyzer, and then plug the power adapter into a 100-volt to 240-volt, 50-Hz to 60-Hz, 100-W power outlet.

b. Connect the USB port to a UUSB port on the host machine using a USB cable.

c. To start the software select **Start > All Programs >LeCroy >DDR Protocol Suite**.

d. Turn on the power switch. At power on, the analyzer will go through initialization as shown on the Updating Analyzer Device window.

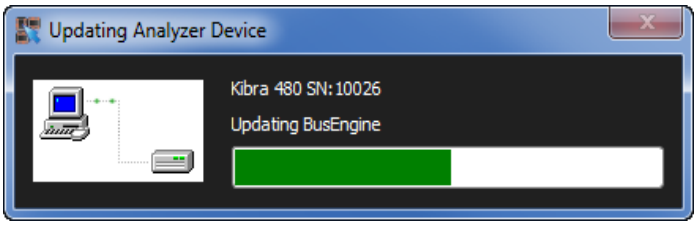


Figure 1.1: Updating Analyzer Device Window

2. Update the license key for the system.

a. From the Help menu select **Update License** to display the Analyzer Devices window (see Figure 1.3).

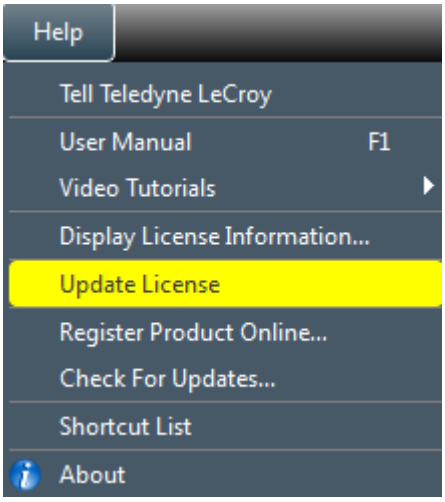


Figure 1.2: Update License

b. Click the device so it displays in blue.

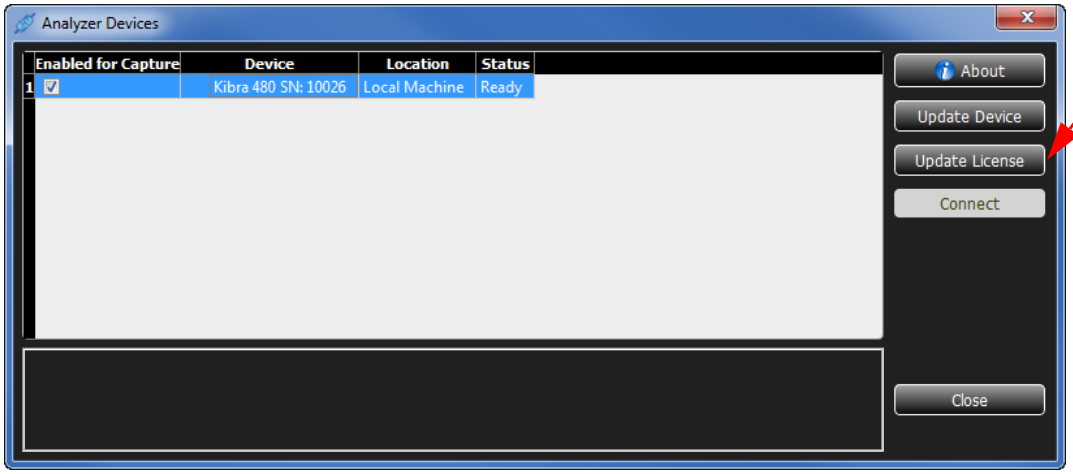


Figure 1.3: Analyzer Devices Window

c. Click **Update License** to display the Select License Key File window (see Figure 1.4).

d. Select the License Key file and click **Open**.

The License Key is updated.

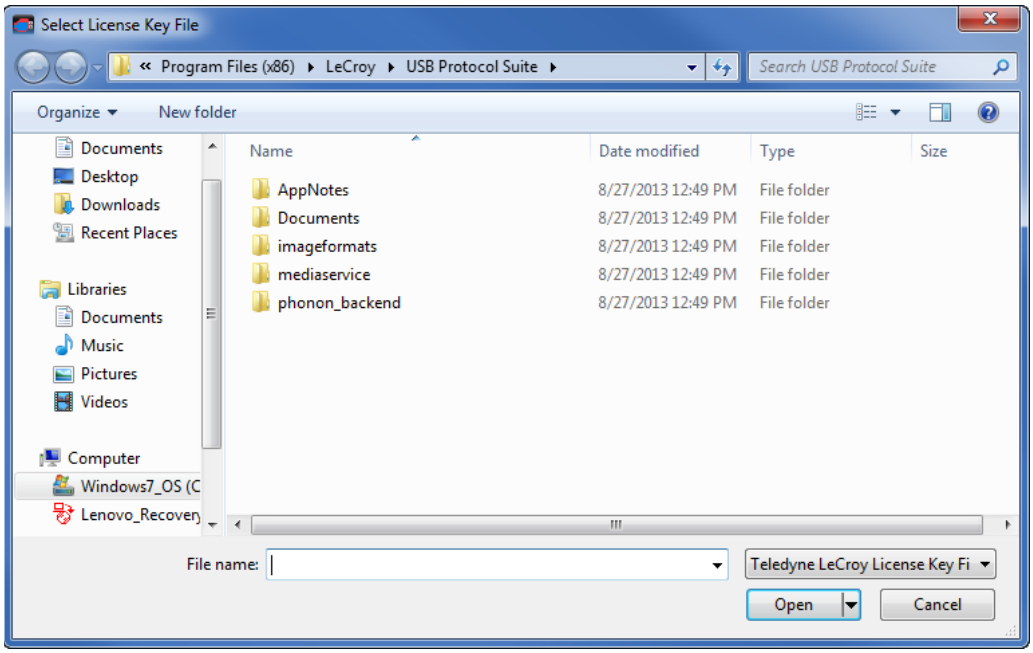


Figure 1.4: Select License Key File Window

Please see the *DDR Protocol Suite User Manual* on the installation CD-ROM for more information.

## FC Protocol Suite

Perform the following steps to update the License:

1. Connect the Analyzer, for which you have purchased the feature upgrade license, to host machine.

a. Connect the Analyzer to a 100-volt to 240-volt, 50 Hz to 60 Hz, 120 W power outlet.

b. Connect the USB port to a USB port on the host machine using a USB cable.

**Note:** You can connect using an Ethernet connection too.

c. To start the software select **Start > All Programs >LeCroy >FC Protocol Suite**.

d. Turn on the power switch. At power on, the Analyzer will go through initialization as shown on the LCD display.

Figure 1.5: Front Panel Display Message while System is Initializing

Figure 1.6: Front Panel Display Message when System is Ready

e. Skip to step 2 to update the license via USB. If updating via Ethernet, follow steps f through k and then proceed to step 2.

f. Click on **Configuration > All Connected Devices**.

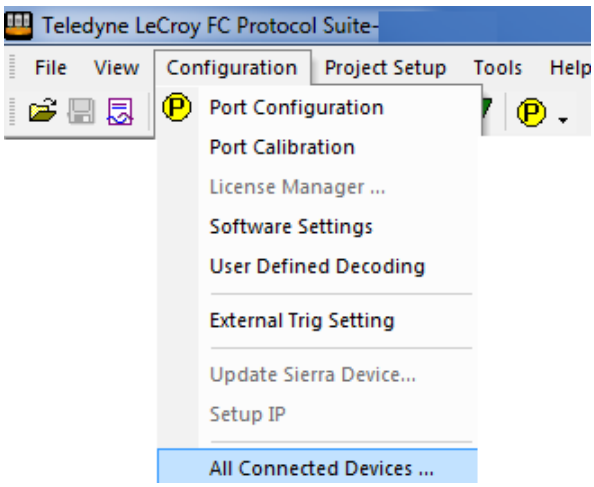


Figure 1.7: Configuration Menu

g. The Select Device window displays (see Figure 1.8 on page 7).

h. Select the device you want to upgrade and click **Connect** to display the Connection properties window (see Figure 1.8 on page 7).

i. Specify one of the actions from the following:

- Automatically connect to the device
- Ask if I want to connect to the device
- Take no action

If 'Automatically connect to the device' is selected, the next time the application opens the device will be automatically connected.

j. Click **OK**.

k. Click **Close** to close the Select Device window.

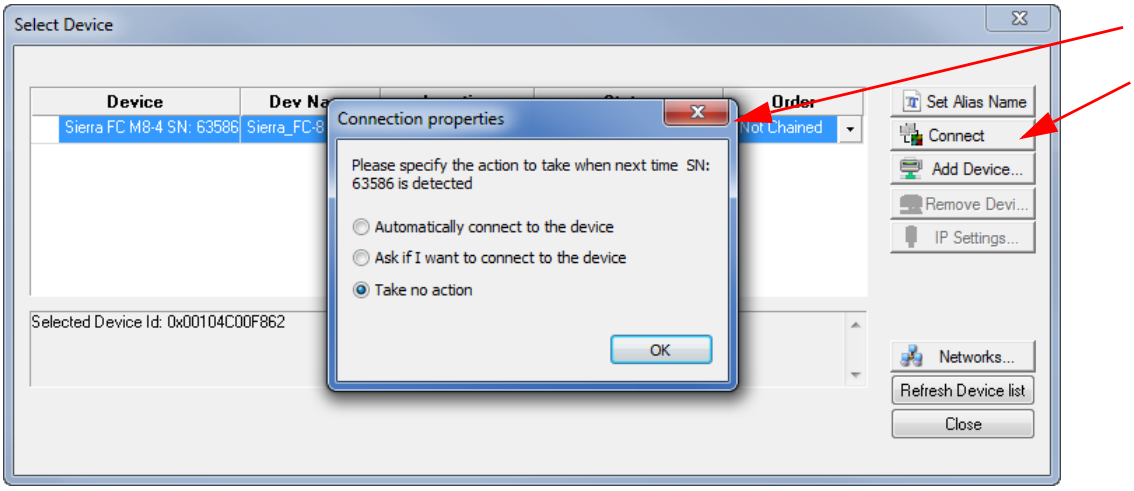


Figure 1.8: Select Device Window

2. Update the License Key for the system.

a. From the Help menu, click **Update License** to display the Select License Key File window (see Figure 1.9).

b. Select the License Key file and click **Open**.

The License Key is updated.

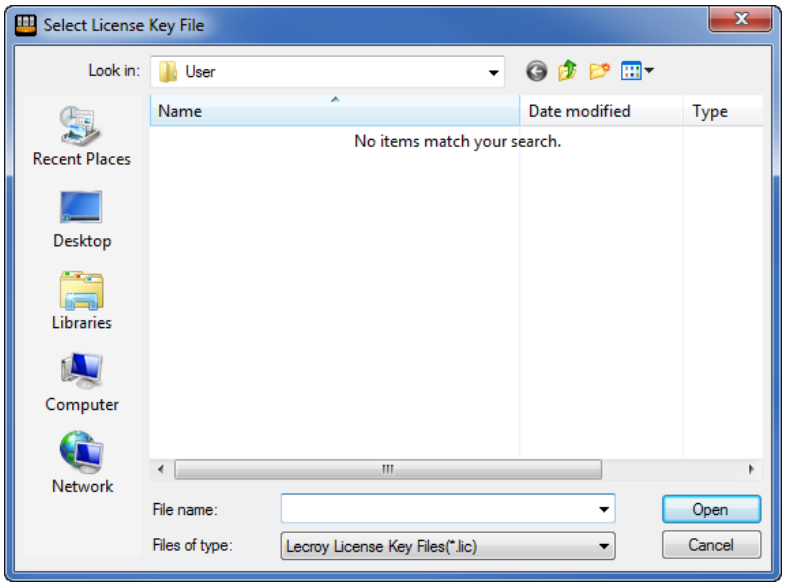


Figure 1.9: Select License Key File Window

Please see the *SierraFC Protocol Suite User Manual* on the installation CD-ROM for more information.

## Net Protocol Suite

Perform the following steps to update the License:

1. Connect the Analyzer, for which you have purchased the feature upgrade license, to the host machine.

a. Connect the Analyzer to a 100-volt to 240-volt, 50 Hz to 60 Hz, 120 W power outlet.

b. Connect the USB port to a USB port on the host machine using a USB cable.

---

**Note:** You can connect using an Ethernet connection too.

---

c. To start the software select **Start > All Programs >LeCroy >Net Protocol Suite**.

d. Turn on the power switch. At power on, the Analyzer will go through initialization as shown on the LCD display.

e. Skip to step 2 to update the license via USB. If updating via Ethernet, follow steps f through k and then proceed to step 2.

Figure 1.10: Front Panel Display Message while System is Initializing

Figure 1.11: Front Panel Display Message when System is Available

f. Select **Setup > Device Management.**

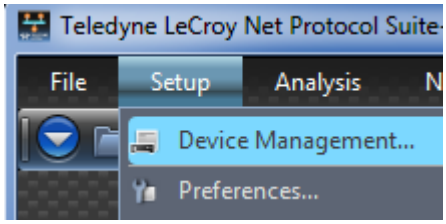


Figure 1.12: Setup Menu

g. The Device Management window displays (see Figure 1.13 on page 10)

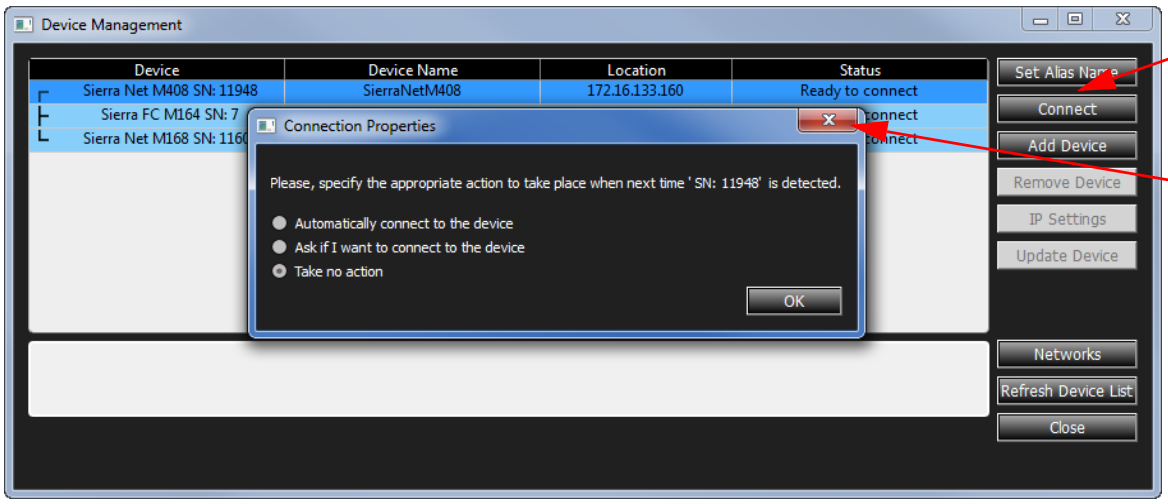


Figure 1.13: Device Management Window

h. Select the device you want to upgrade and click **Connect** to display the Connection properties window.

i. Specify one of the actions from the following:

- Automatically connect to the device
- Ask if I want to connect to the device
- Take no action

If 'Automatically connect to the device' is selected, the next time the application opens the device will be automatically connected.

j. Click **OK**.

k. Click **Close** to close the Device Management window.

2. Update the License Key for the system.

a. From the **Help** menu, select **License Information** to display the License Information window (see Figure 1.14 on page 11).

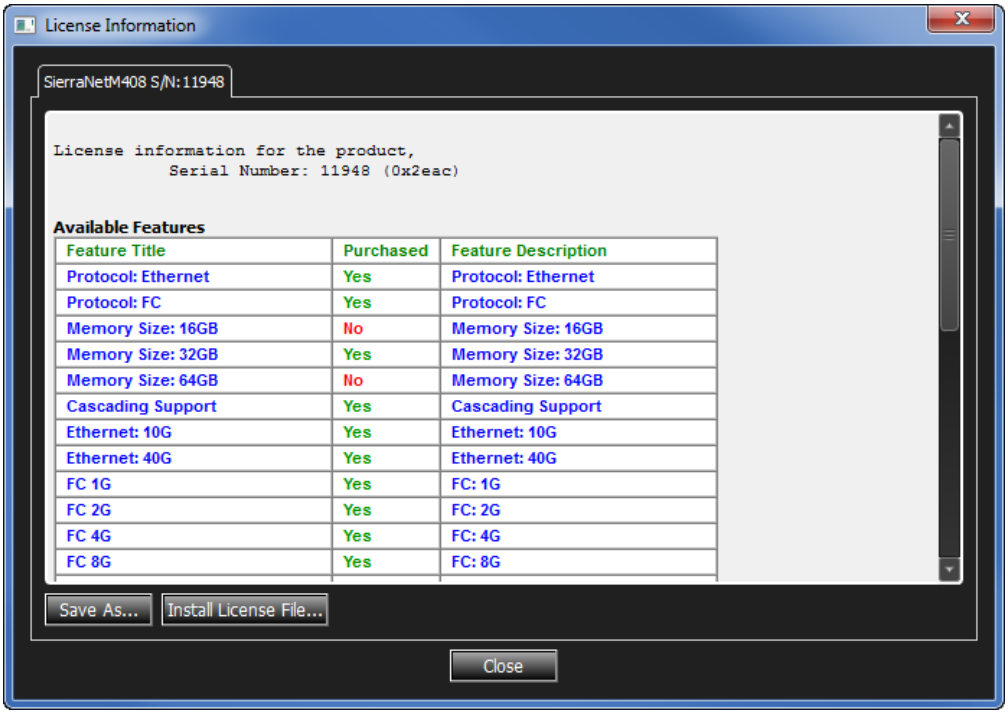
License Information
SierraNetM408 S/N:11948
License information for the product,
Serial Number: 11948 (0x2eac)
Available Features
Feature Title | Purchased | Feature Description
Protocol: Ethernet | Yes | Protocol: Ethernet
Protocol: FC | Yes | Protocol: FC
Memory Size: 16GB | No | Memory Size: 16GB
Memory Size: 32GB | Yes | Memory Size: 32GB
Memory Size: 64GB | No | Memory Size: 64GB
Cascading Support | Yes | Cascading Support
Ethernet: 10G | Yes | Ethernet: 10G
Ethernet: 40G | Yes | Ethernet: 40G
FC 1G | Yes | FC: 1G
FC 2G | Yes | FC: 2G
FC 4G | Yes | FC: 4G
FC 8G | Yes | FC: 8G
Save As...
Install License File...
Close

Figure 1.14: License Information Window

b. Select **Install License File** to display the Open License window (see Figure 1.15).

c. Select the License Key file and click **Open**.

The License Key is updated.

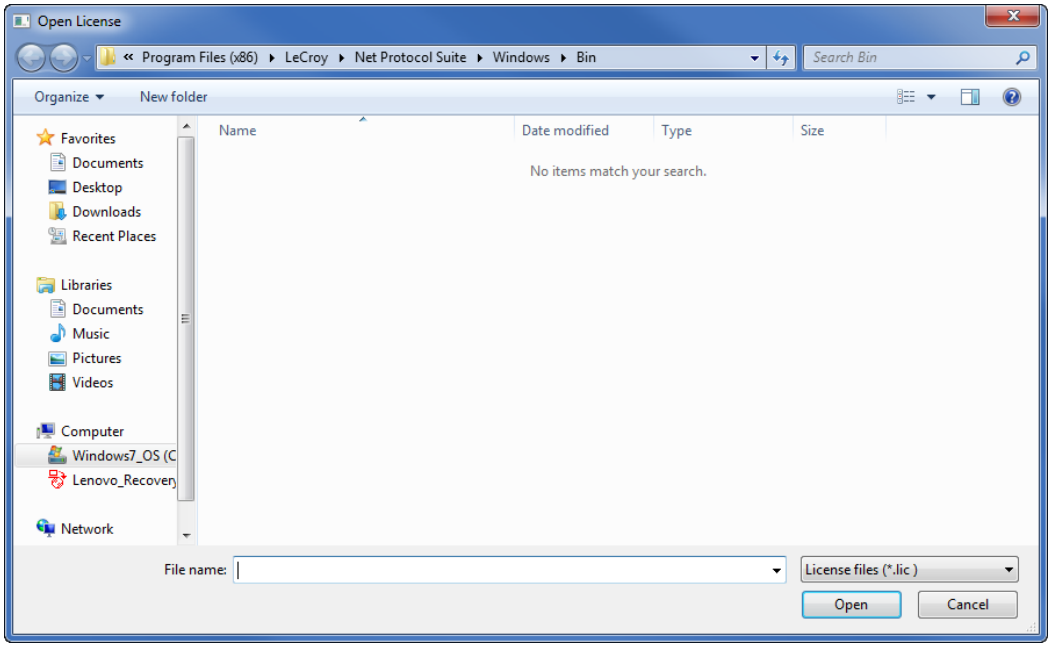


Figure 1.15: Open License Window

Please see the *Net Protocol Suite User Manual* on the installation CD-ROM for more information.

# PETracer

The following two sections describe the license update procedure for PCI Express protocol Analyzer and Exerciser products.

## Analyzers

Perform the following steps to update the License:

1. Connect the Analyzer, for which you have purchased the feature upgrade license, to the host machine.

a. Connect the Analyzer to a 100-volt to 240-volt, 50 Hz to 60 Hz, 120 W power outlet.

b. Connect the USB port to a USB port on the host machine using a USB cable.

---

**Note:** You can connect using an Ethernet connection too.

---

c. To start the software select **Start > All Programs > LeCroy > PETracer.**

d. Turn on the power switch. At power-on, the Analyzer initializes and performs a self-diagnosis. The results are reflected by messages on the Summit T3-8 LCD display. If the LCD display indicates failure, call Teledyne LeCroy Customer Support for assistance.

e. Skip to step 2 to update the license via USB. If updating via Ethernet, follow steps f through k and then proceed to step 2.

f. Select **Setup > All Connected Devices…**

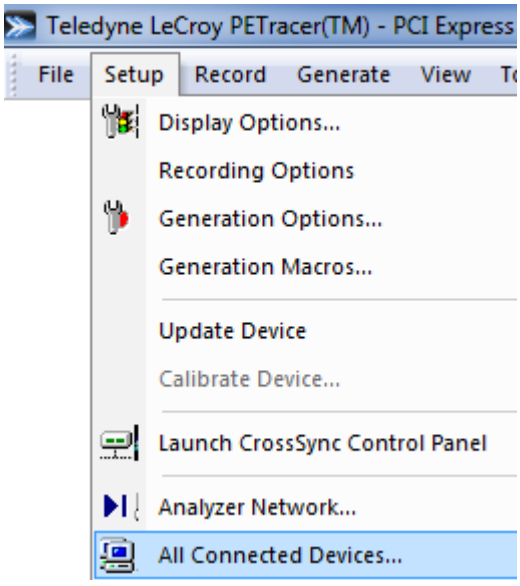


Figure 1.16: Setup Menu

g. The Analyzer Devices window displays (see Figure 1.17 on page 13).

h. Select the device you want to upgrade and click **Connect** to display the Connection properties window (see Figure 1.17 on page 13).

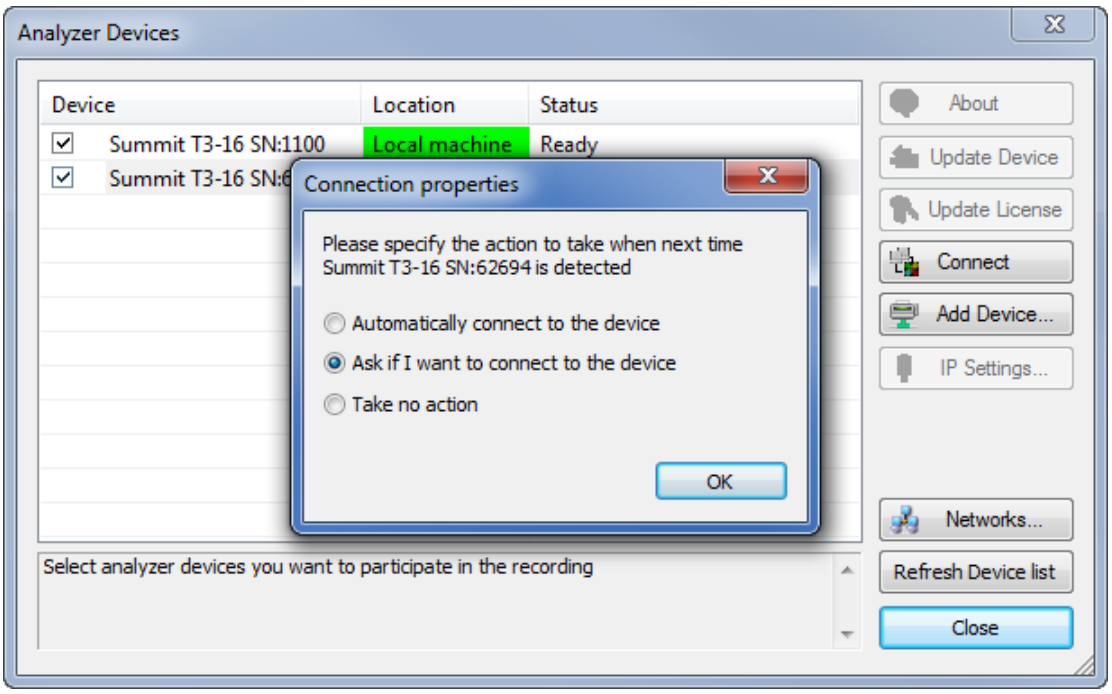


Figure 1.17: Analyzer Devices Window

i. Specify one of the options from the following:
   - Automatically connect to the device
   - Ask if I want to connect to the device
   - Take no action

   If 'Automatically connect to the device' is selected, the next time the application opens the device will be automatically connected.

j. Click **OK**.

k. Click **Close** to close the Analyzer Devices window.

2. Update the license key for the system.

a. From the Help menu, select **Display License Information** to display the License Information window.

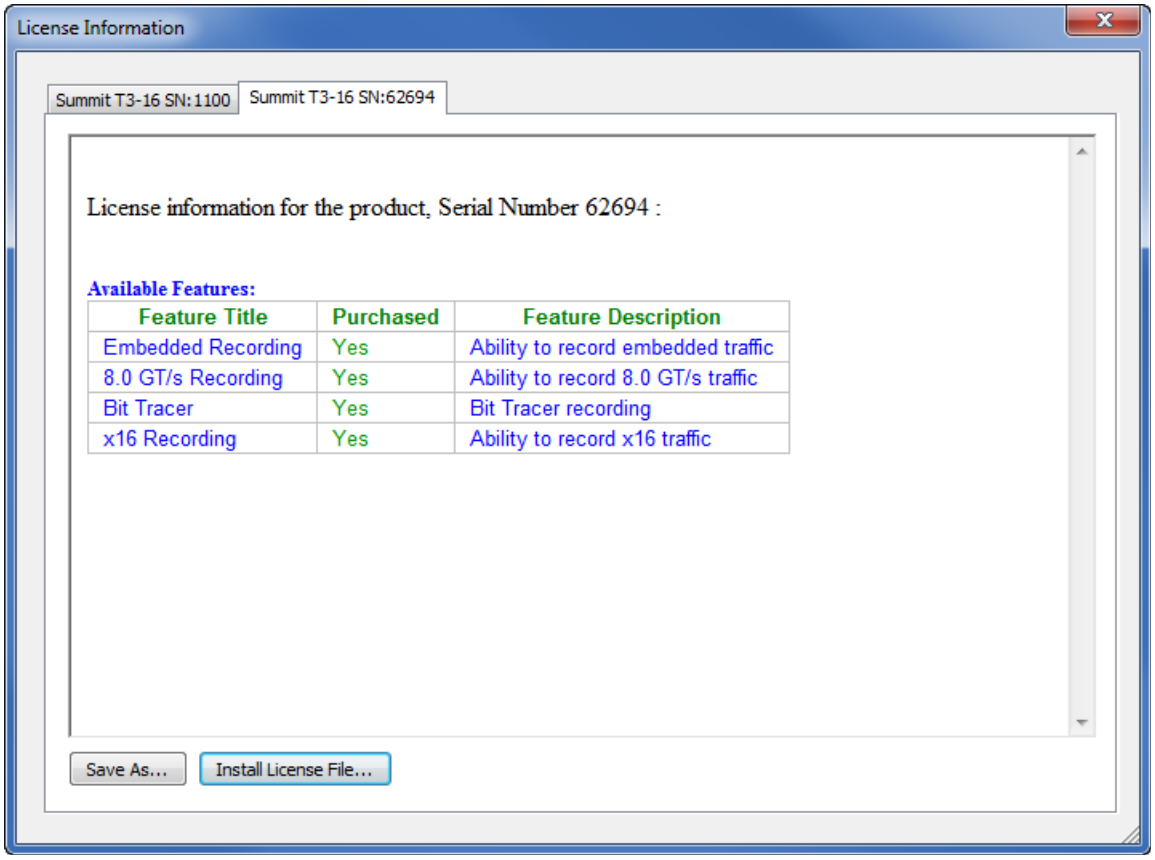


Figure 1.18: License Information Window

b. Select **Install License File** to display the Select license Key File window (see Figure 1.19 on page 15).

c. Select the License Key file and click **Open**.

The License Key is updated.

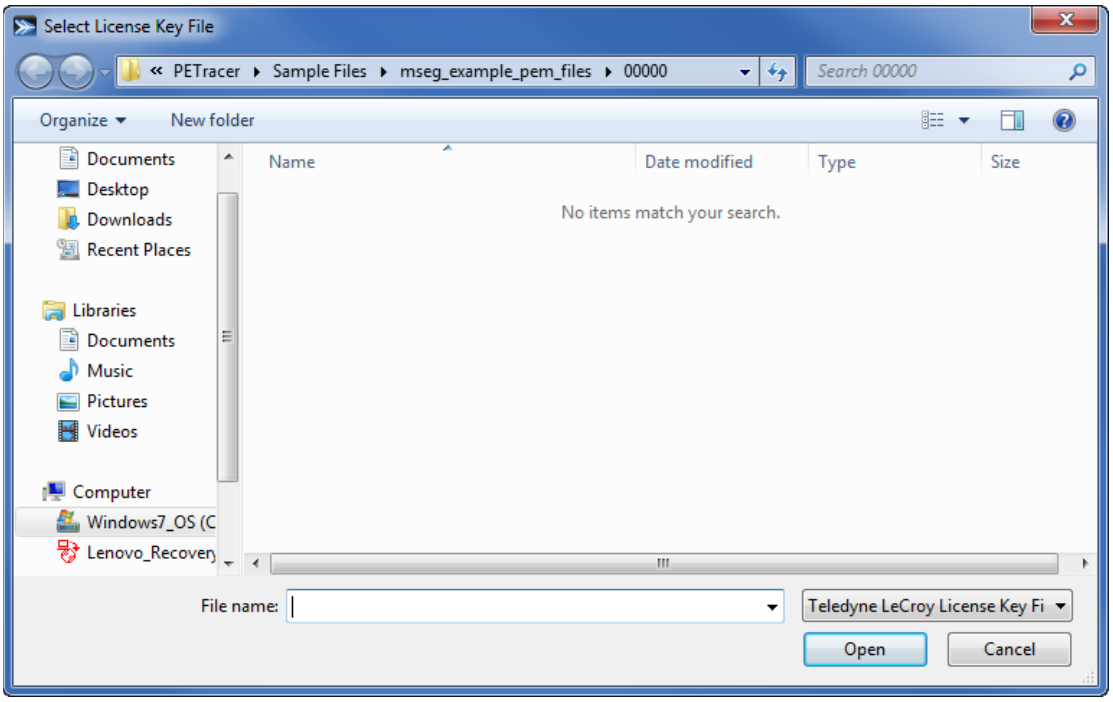


Figure 1.19: Select license Key File Window

Please see the Summit PCI Express Multi-Lane Protocol Analyzer *User Manual* on the installation CD-ROM for more information.

## Exerciser

Perform the following steps to update the License:

1. Connect the Exerciser, for which you have purchased the feature upgrade license, to either the host machine or the PCI Express Test Platform.

a. Connect the Exerciser to a 100-volt to 240-volt, 50 Hz to 60 Hz, 120 W power outlet using the provided AC power adapter, or to the DC power connector if using the PCI Express Test Platform.

b. Connect the USB port to a USB port on the host machine using a USB cable.

**Note:** You can connect using an Ethernet connection too.

c. To start the software select **Start > All Programs > LeCroy > PETracer.**

d. Turn on the power to the host machine or the PCI Express Test Platform 16x2.5GT/s / 16x5.0GT/s / 16x8.0GT/s.

   At power-on, the Exerciser initializes itself in approximately five seconds and performs an exhaustive self-diagnostic that lasts about forty seconds.

2. Update the license key for the system by performing steps 2a through 2c in the section “Analyzers” on page 12.

Please see the *Summit PCI Express Multi-Lane Protocol Exerciser User Manual* on the installation CD-ROM for more information

## SAS/SATA Protocol Suite

Perform the following steps to update the License:

1. Connect the Analyzer, for which you have purchased the feature upgrade license, to the host machine.

a. Connect the Analyzer to a 100-volt to 240-volt, 50 Hz to 60 Hz, 120 W power outlet.

OR

Connect the provided power adapter into the Analyzer, and then plug the power adapter into a 100V–240V, 50Hz–60Hz, power outlet (Sierra M6-1 only).

b. Connect the USB port to a USB port on the host machine using a USB cable.

**Note:** You can connect using an Ethernet connection too.

c. To start the software select **Start > All Programs >LeCroy >SAS Protocol Suite** or **SATA Protocol Suite**.

d. Turn on the power switch. At power on, the Analyzer will go through initialization as shown on the LCD display.

Figure 1.20: Front Panel Display Message while System is Initializing

Figure 1.21: Front Panel Display Message when System is Available

e. Skip to step 2 to update the license via USB. If updating via Ethernet, follow steps f through k and then proceed to step 2.

f. Select **Setup > All Connected Devices** (see Figure 1.22 on page 17)..

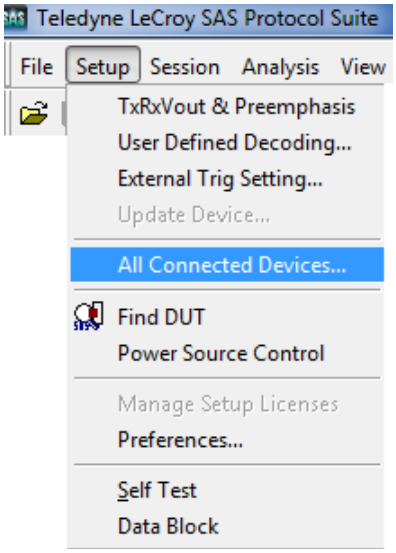


Figure 1.22: Setup Menu

g. The Select Device window displays (see Figure 1.23).

h. Select the device you want to upgrade and click **Connect** to display the Connection properties window (see Figure 1.23).

i. Specify one of the actions from the following:

- Automatically connect to the device
- Ask if I want to connect to the device
- Take no action

If 'Automatically connect to the device' is selected, the next time the application opens the device will be automatically connected.

j. Click **OK**.

k. Click **Close** to close the Select Device window.

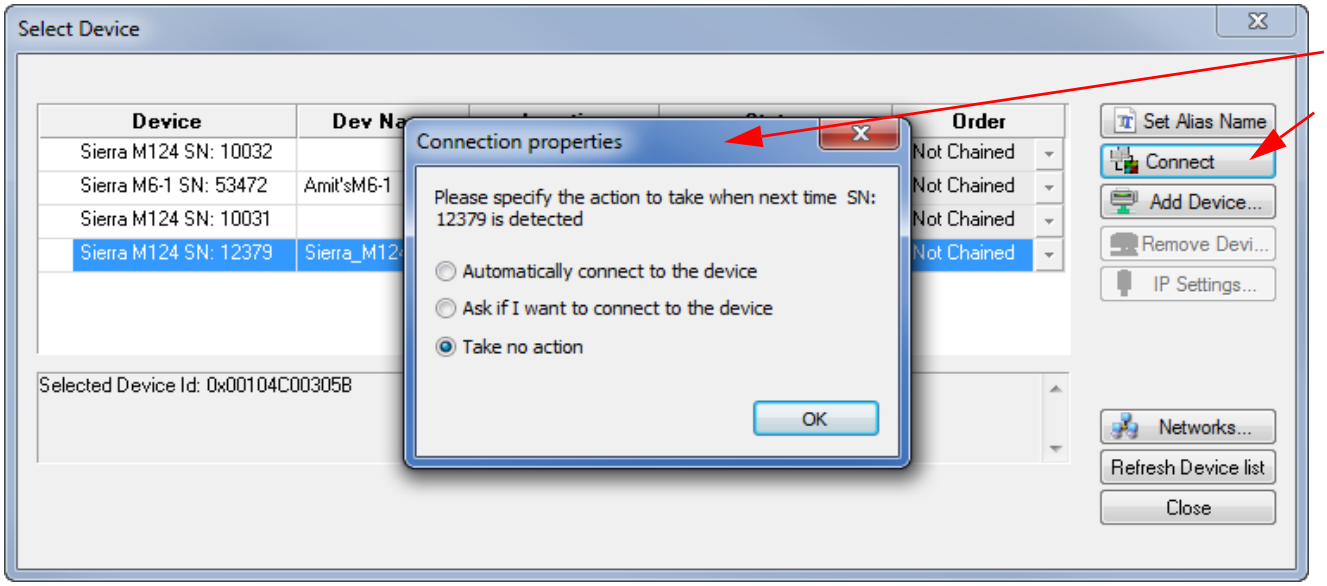


Figure 1.23: Select Device Window

2. Update the License Key for the system.

a. From the Help menu, click **Update License** to display the Select License Key File window (see Figure 1.24).

b. Select the License Key file and click **Open**.

The License Key is updated.

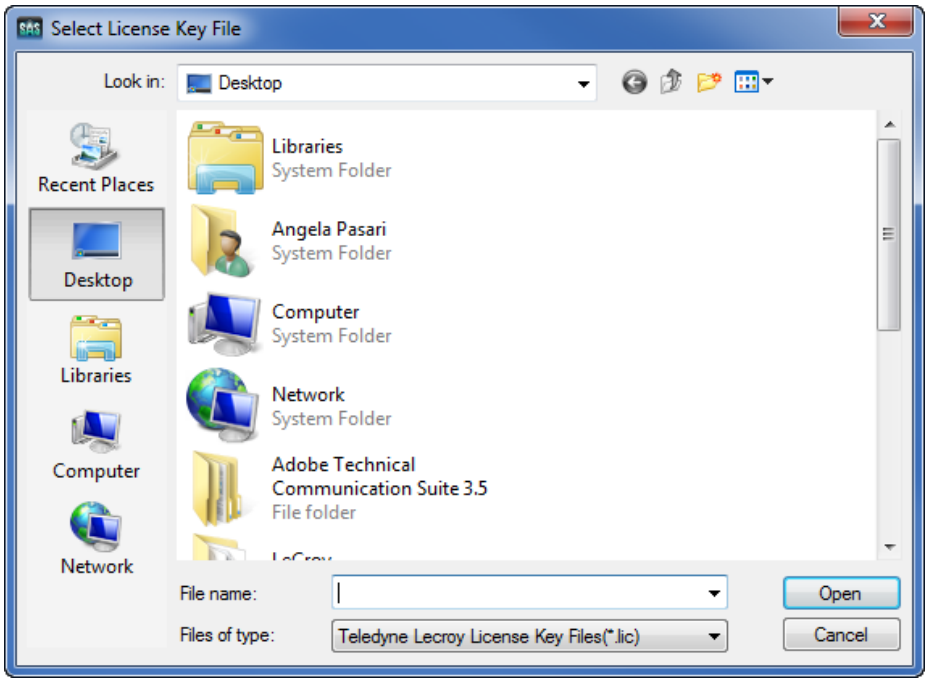


Figure 1.24: SAS Select License Key File window

Please see the *SAS/SATA Protocol Suite User Manual* on the installation CD-ROM for more information.

## USB Protocol Suite

Perform the following steps to update the License:

1. Connect the Analyzer, for which you have purchased the feature upgrade license, to the host machine.

a. Connect the provided power adapter to the rear of the Analyzer, and then plug the power adapter into a 100-volt to 240-volt, 50-Hz to 60-Hz, 100-W power outlet.

b. Connect the USB port to a USB port on the host machine using a USB 2.0 cable.

**Note:** You can connect using an Ethernet connection too.

c. To start the software select **Start > All Programs > LeCroy > USB Protocol Suite**.

d. Turn on the power switch. At power on, the Analyzer will go through initialization as shown on the Updating Analyzer Device window.

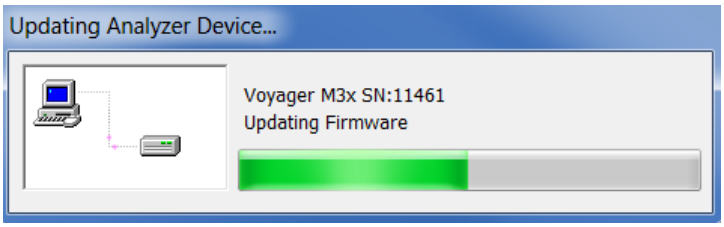


Figure 1.25: Updating Analyzer Device Window

e. Skip to step 2 to update the license via USB. If updating via Ethernet, follow steps f through k and then proceed to step 2.

f. Select **Setup>All Connected Devices**.

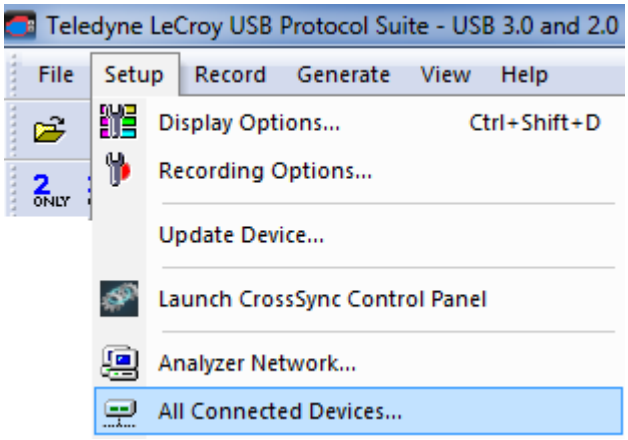


Figure 1.26: Setup Menu

g. The Analyzer Devices window displays (see Figure 1.27 on page 20).

h. Select the device you want to upgrade and click **Connect** to display the Connection properties window (see Figure 1.27).

i. Specify one of the actions from the following:

- Automatically connect to the device
- Ask if I want to connect to the device
- Take no action

If ‘Automatically connect to the device’ is selected, the next time the application opens the device will be automatically connected.

j. Click **OK**.

k. Click **Close** to close the Select Device window.

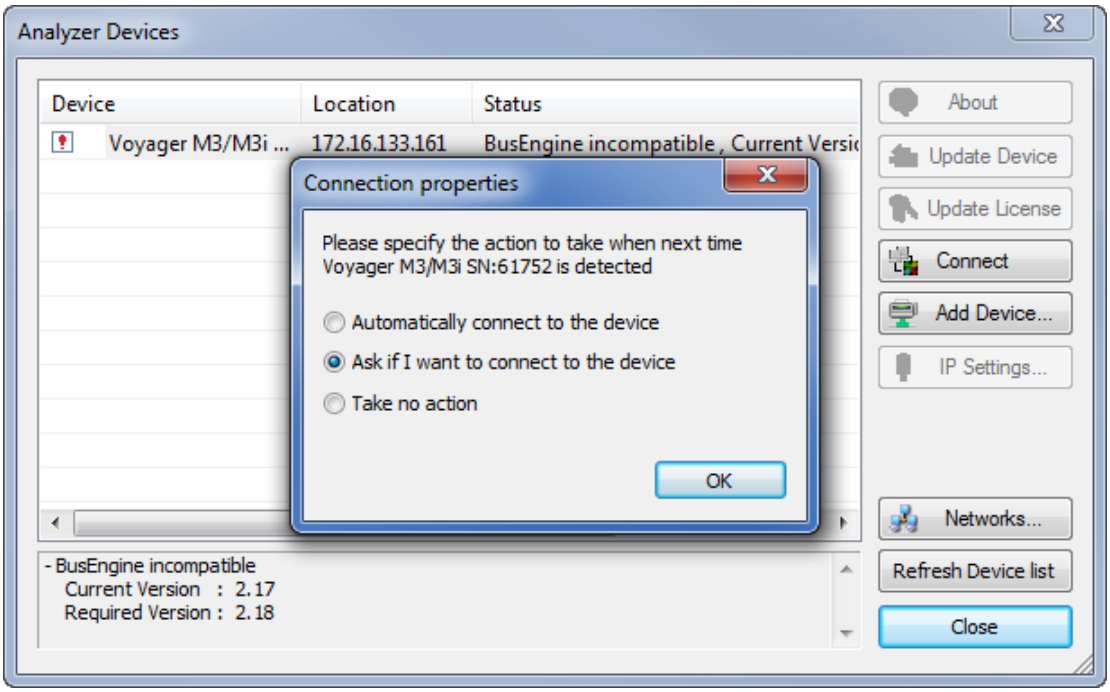


Figure 1.27: Analyzer Devices Window

2. Update the License Key for the system.

a. From the Help menu, select **Display License Information** to display the License Information window (see Figure 1.28 on page 21).

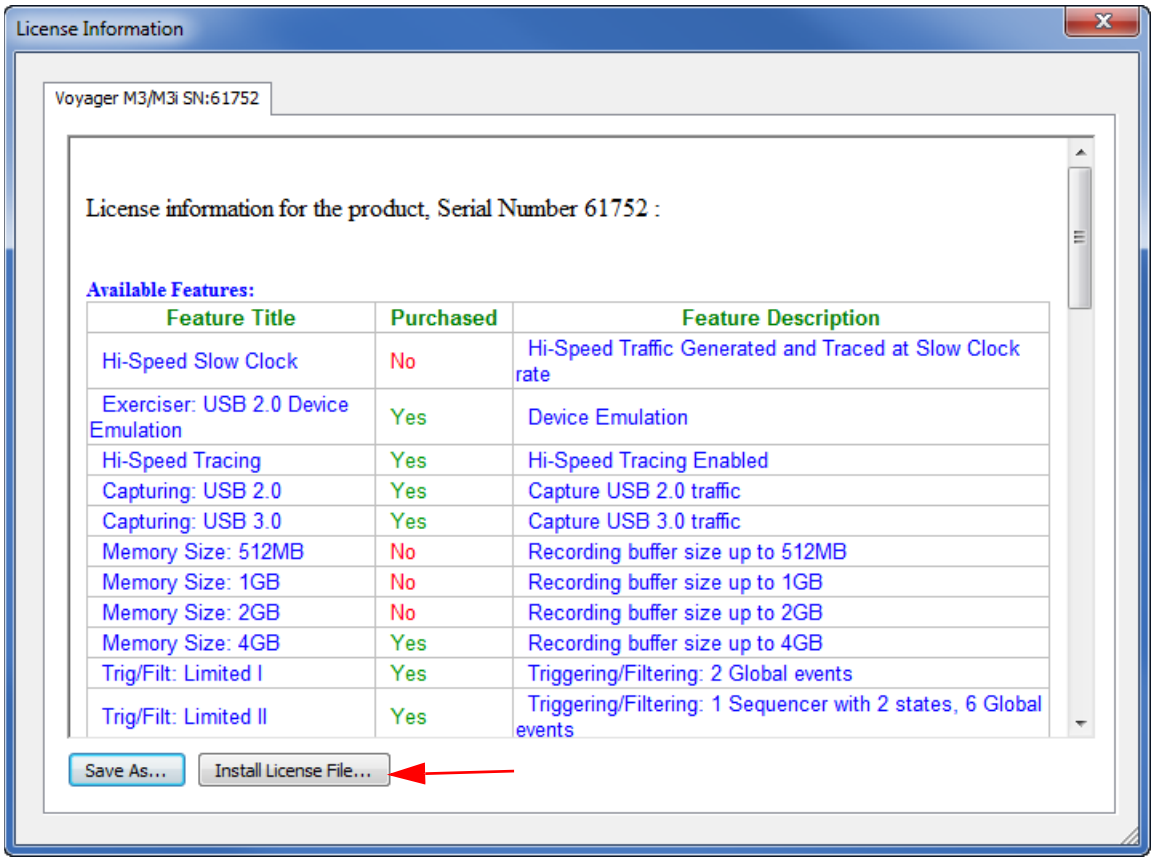


Figure 1.28: License Information Window

b. Select **Install License File** to display the Select License Key File window (see Figure 1.29 on page 22).

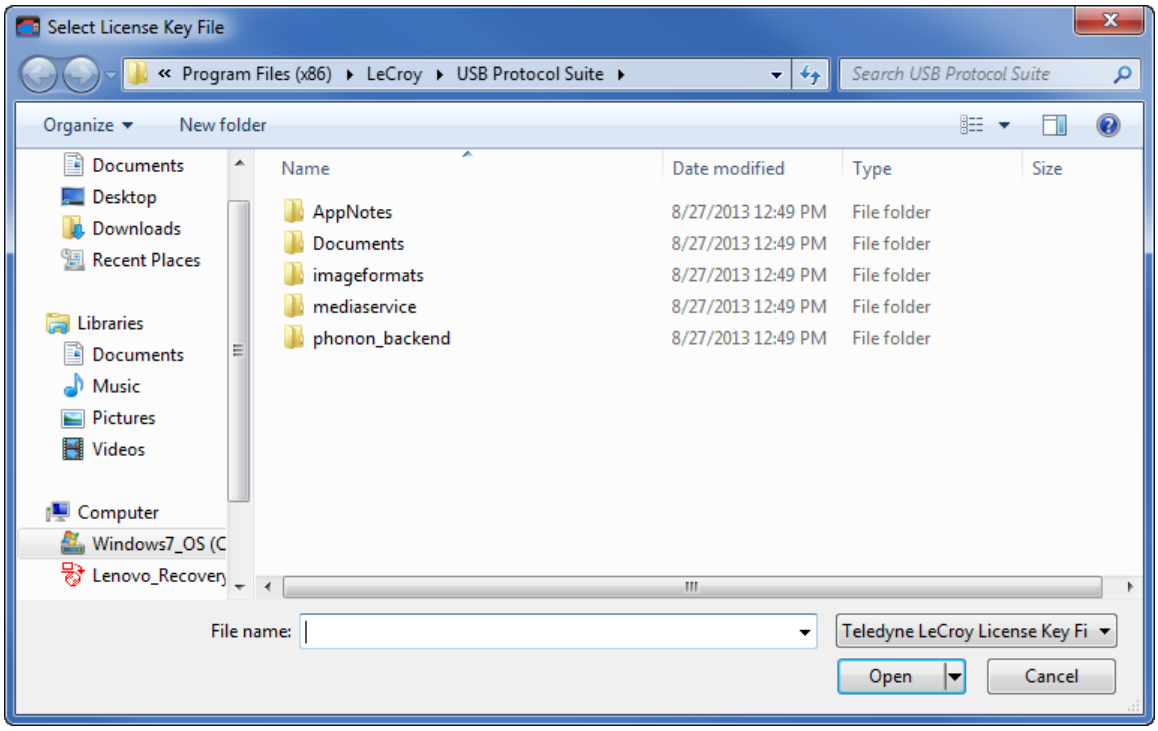


Figure 1.29: Select License Key File Window

c. Select the License Key file and click **Open**.

   The License Key is updated.

Please see the *USB Protocol Suite User Manual* on the installation CD-ROM for more information.

# Appendix A

## How to Contact Teledyne LeCroy

| Type of Service | Contact | |
|---|---|---|
| Call for technical support… | US and Canada: | 1 (800) 909-7112 |
| | Worldwide: | 1 (408) 653-1260 |
| Fax your questions… | Worldwide: | 1 (408) 727-6622 |
| Write a letter… | Teledyne LeCroy<br>Protocol Solutions Group<br>Customer Support<br>3385 Scott Blvd.<br>Santa Clara, CA 95054-3115<br>USA | |
| Send e-mail… | psgsupport@teledynelecroy.com | |
| Visit Teledyne LeCroy's web site… | teledynelecroy.com/ | |